

TP-00059

TP-00059

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00059	Edition No. 1
Job No. PH-6905	
Map Classification FINAL	
Type of Survey Shoreline	
LOCALITY	
State DELAWARE	
General Locality DELAWARE BAY	
Locality SLAUGHTER BEACH	
1969 TO 1971	
REGISTRY IN ARCHIVES	
DATE	

MAP NOT INSPECTED BY
QUALITY CONTROL OF PHOTOGRAMMETRY DIVISION
PRIOR TO REGISTRATION

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP.00059 MAP EDITION NO. (1) MAP CLASS Final JOB PH- 6905	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA				OFFICER-IN-CHARGE Roy Matsushige, CDR			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation December 10, 1969 Compilation May 12, 1970 Amendment 1 April 1, 1971 Memo (Cancel field edit) December 14, 1979 Memo (Completion Schedule) June 22, 1981				Field September 26, 1969 Amendment October 7, 1969			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Polyconic				4. GRID(S) STATE Delaware ZONE			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				D. Norman		April 1970	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY				J. Dempsey		April 1970	
				E. Homick		April 1970	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				R. White		June 1970	
INSTRUMENT: Wild B-8				A. Shands		June 1970	
SCALE: 1:10,000				NA			
				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY				R. White		June 1970	
METHOD: Smooth Draft				L. Graves		July 1970	
				NA			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				R. White		June 1970	
				L. Graves		July 1970	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				L. Graves		July 1970	
6. APPLICATION OF FIELD EDIT DATA BY				S. Kumer		Nov. 1972	
				C. Blood		Nov. 1972	
7. COMPILATION SECTION REVIEW BY				C. Blood		Nov. 1972	
8. FINAL REVIEW BY				L. O. Neterer, Jr.		Jan. 1972	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				L. O. Neterer, Jr.		May 1982	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				H. D. Wolfe		MAR 10 1983	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				Chief, Photo Map and Imagery Unit Photogrammetry Branch			

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00059
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-9 "M" Wild RC-8-"E" and "K"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR X (P) PANCHROMATIC (I) INFRARED X		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
+ 69E(C) 2903 thru 2906	23 Oct. 69	13:38	1:20,000	0.1 ft. below MLW	
*X 69E(C) 3059 and 3060	24 Oct. 69	11:04	1:40,000	2.0 ft. above MLW	
*X 69E(C) 3065 and 3066	24 Oct. 69	11:14	1:40,000	2.7 ft. above MLW	
*+ 69K(I) 4478 thru 4482	23 Oct. 69	13:38	1:20,000	0.1 ft. below MLW	
*+ 69K(I) 4675 thru 4678	26 Oct. 69	10:50	1:20,000	4.9 ft. above MLW	
Camera focal length: E = 152.71 mm, K = 151.77 mm, M = 88.20 mm					

REMARKS *Centers not shown on manuscript
 +Tide coordinated photography
 xBridging photography used in the Wild B-8 stereoplotter

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was compiled from the above listed tide coordinated infrared mean high-water photography.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean low-water line was compiled from the above listed tide coordinated infrared mean low-water photography.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00058	TP-00060	No Survey	TP-00057
REMARKS			

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00059

HISTORY OF FIELD OPERATIONS.

1. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	Oct. 1970
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None J. K. Wilson P. B. Walbolt
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
69E(C) 2903	Lynch, 1970, Sub Station A		
69E(C) 2906	TS-04, Sub Station A		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

2 - forms C & GS 152
 2 - forms C & GS 524
 2 - forms C & GS 525

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00059

HISTORY OF FIELD OPERATIONS.

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	Aug. 1971
2. HORIZONTAL CONTROL	RECOVERED BY J. K. Wilson	Aug. 1971
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	
	R. Tibbetts	Aug. 1971
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R. Tibbetts	Aug. 1971
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

69 E(C) 2903-2906

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 - field edit ozalid
1 - field edit report
1 - form C & GS 526

1 - form C & GS 76-40 - see field Edit Report

NOAA FORM 76-36D (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		
TP-00059 RECORD OF SURVEY USE				
I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending Field Edit	June 1970	Class III Superseded	July 16, 1970	July 16, 1970
Field edit applied Compilation complete	Nov. 1972	Class I		
Final Review	Jan. 1982	Final		
II. LANDMARKS AND AIDS TO NAVIGATION				
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS	
			Landmarks to be deleted - <i>see Field Edit Report</i>	
2. <input type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____ 3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____				
III. FEDERAL RECORDS CENTER DATA				
1. <input type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input checked="" type="checkbox"/> COMPUTER READOUTS. 2. <input checked="" type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input checked="" type="checkbox"/> FORM NOS ⁷⁶⁻⁴⁰ 50 SUBMITTED BY FIELD PARTIES. 3. <input type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS: <i>1 form C&GS 76-40, 2 forms each C&GS 524, 525 and 1 - C&GS 526</i> 4. <input checked="" type="checkbox"/> DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: <u>NOV 1982</u>				
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)				
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		

Official Mileage for Cost Accounts

Sheet No.-Area Sq.Mi.

00050	3
00051	1
00052	3
00053	5
00054	3
00055	4
00056	5
00057	4
00058	3
00059	3
00060	2
00061	3
00062	4
00063	2
00116	2
00121	2
00180	7
TOTAL	54

JOB PH-6905
DELAWARE BAY, DELAWARE
COASTAL MAPPING
SCALE 1:10,000

RBn
DELAWARE
298
H+04 & ev 6m

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00059

This 1:10,000 scale shoreline manuscript is one of seventeen maps that comprise project PH-6905, Delaware Bay, Delaware. The project encompasses the western part of Delaware Bay from Woodland Beach, latitude 39°20', south to Indian River Inlet, latitude 38°35'.

Field edit was accomplished for maps TP-00059 through TP-00063, TP-00121, and TP-00180 which were registered as Final maps. Correspondence, dated December 14, 1979, from the Chief of Photogrammetry, canceled field edit for TP-00050 through TP-00058 and TP-00116. They were registered as Final Class III maps.

This map was compiled for hydrographic support.

Field work prior to compilation was done in October 1969 and involved the establishment of horizontal control by premarking methods for aerotriangulation.

Photographs were taken in October 1969 for aerotriangulation using panchromatic film with the "M" camera at 1:80,000 scale. Compilation photography was taken using color film in the "E" camera at 1:20,000 scale. Tide coordinated infrared high and low-water photography was taken using the "K" camera at 1:20,000 scale; the low-water infrared photographs were taken in tandem with hydro support photography.

Analytic aerotriangulation was performed at the Washington Science Center in April 1970.

Compilation was performed and hydrographic support photographs were prepared at the Atlantic Marine Center in June 1972.

Field edit was completed in August of 1971. Field edit application was completed in November 1972.

The final review was performed at the Atlantic Marine Center in January 1982.

This descriptive report contains all pertinent information used to compile this final map.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00059

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report
PH-6905
Delaware Bay

April 3, 1970

21. Area Covered

The area covered in this project is the southwest shore of Delaware Bay. The manuscripts are TP-50 through TP-62 and TP-116 at 1:10,000 scale and TP-63 at 1:5,000 scale.

22. Method

Two strips of 1:80,000 scale panchromatic photography and one strip of 1:30,000 scale color photography were bridged by analytic aerotriangulation methods. Points were selected on the 1:80,000 scale photography common to the 1:40,000 and 1:20,000 scales to be used for compilation of the 1:10,000 scale manuscripts and as an aid during hydrography. Similarly, the 1:30,000 scale bridging photography was used to control the 1:10,000 scale photography for compilation of the 1:5,000 scale manuscript. Attached are sketches showing strips bridged and legend with fit to control.

23. Adequacy of Control

The horizontal control was adequate. Nevertheless, the following discrepancy should be noted: a substitute station was established for LEWES COAST GUARD LIFE SAVING STATION MAST, 1962 which appears in two strips. A discrepancy of 6.5 degrees in azimuth was found between the two azimuth stations from which angles were turned to the substitute station. When the position was computed using the azimuth from Delaware Breakwater West End Light, 1933 the discrepancy in both strips was approximately 13 feet. When the position was computed using the azimuth from LEWES WEST OIL FACTORY CHIMNEY, 1962 the fit to control was excellent. This latter position is evidently correct. No reason could be found for the discrepancy.

24. Supplemental Data

Elevations were taken from USGS topographic quadrangles to meet the vertical control requirements.

-2-

25. Photography

The photography was adequate.

Respectfully submitted,

Don O. Norman

Don O. Norman

Approved and Forwarded,

Henry P. Eichert
Henry P. Eichert, Chief
Aerotriangulation Section

DELAWARE BAY

PH 6905

Bridging Photography

• 1 80,000

⊙ 1 30,000 color

MUNC, 1933 Δ

STRIP 1

1868, 1932 Δ

NICK, 1932 Δ

STRIP 2

DOCTOR, 1932

DEVRIES, 1933

LEWES W. OIL FACTORY CHY, 1962

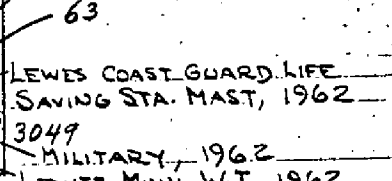
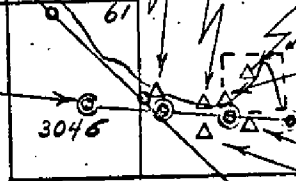
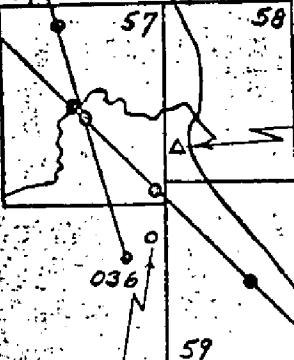
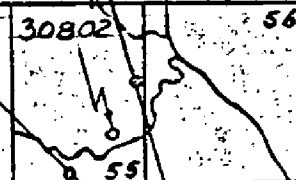
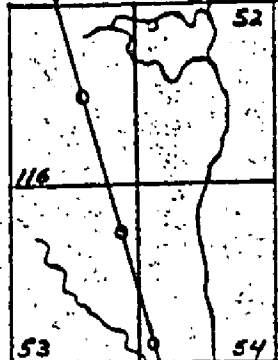
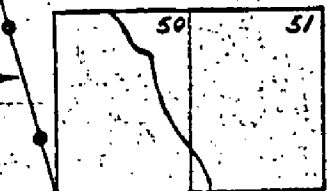
DELAWARE BREAKWATER
L.H., 1927

LEWES COAST GUARD LIFE
SAVING STA. MAST, 1962

MILITARY, 1962

LEWES MUNI. W.T., 1962

STRIP 6



LEGEND

▲ CONTROL USED IN ADJUSTMENT

CLOSURES OF BRIDGE TO CONTROL SHOWN
IN PARENTHESES

△ CONTROL USED AS CHECK

STRIP 1

- ▲ FLEMING, 1933 SUB. A (-40, +1.06)
- ▲ COLLEGE, 1932 RM2 SUB. A (+2.20, -2.51)
- ▲ 30802 TIE POINT
- △ UNION STA. A (-6.36, +2.20)
- △ DOCTOR, 1932 RM6 (-4.03, +6.75)
- ▲ 34901 TIE POINT (+1.92, -.57)

STRIP 2

- ▲ MILITARY, 1962 SUB. A (+.56, +1.26)
- ▲ MILITARY, 1962 SUB. B (0.0, 0.0)
- △ LEWES COAST GUARD LIFE SAVING STA. SUB. A (-96, -.77)
- △ DEVRIES, 1962 RM (+1.66, -1.83)
- △ DEVRIES, 1933 (+1.86, +.94)
- ▲ DOCTOR, 1932 RM 6 (0.0, 0.0)
- ▲ UNION, 1932 SUB. A (0.0, 0.0)

STRIP 6

- ▲ DEVRIES, 1962 RM (0.0, 0.0)
- ▲ DEVRIES, 1933 SUB. A (-.02, -.11)
- △ LEWES COAST GUARD LIFE SAVING STA. MAST SUB. A (+1.05, 4.06)
- △ LEWES MUNI. WATER TANK, 1962 (+.75, -1.22)
- △ LEWES W. OIL FACTORY CHY., 1962 (+2.54, +.36)
- ▲ MILITARY, 1962 SUB. A (0.0, 0.0)
- △ MILITARY, 1962 SUB. B (-.81, +.45)
- △ DELAWARE BREAKWATER L.H., 1927 (-.76, +.39)

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY	
				STATION NAME	TP-00059	PH-6905	NA 1927
NONE				COORDINATES IN FEET		GEOGRAPHIC POSITION	REMARKS
				STATE		ϕ LATITUDE	
				ZONE		λ LONGITUDE	
				X=		ϕ	
				Y=		λ	
				X=		ϕ	
				Y=		λ	
				X=		ϕ	
				Y=		λ	
				X=		ϕ	
				Y=		λ	
				X=		ϕ	
COMPUTED BY				COMPUTATION CHECKED BY			DATE
LISTED BY				LISTING CHECKED BY			DATE
HAND PLOTTING BY				HAND PLOTTING CHECKED BY			DATE

COMPILATION REPORT

TP-00059

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter using 1:40,000 scale, 1969 color photography. Common detail points were selected and transferred to the 1:20,000 scale 1969 color hydro support and infrared photography which were used to compile both mean high and mean low-water lines graphically.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated 3 April 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line and alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

36. OFFSHORE DETAILS

All offshore details were compiled by office interpretation of the photographs. No unusual problems were encountered.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

TP-00059

39. JUNCTIONS

See form 76-36B, Item 5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles: Milton Delaware, scale 1:24,000, dated 1955 and Mispillion River, Delaware, scale 1:24,000, dated 1955.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey chart: 1218, scale 1:80,000, 16th edition, dated October 25, 1969 (corrected through Notice to Mariners 43-1969)

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Richard R. White

Richard R. White
Cartographic Technician

Date: June 27, 1970

Approved;

Billy H. Barnes

for Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

FIELD EDIT REPORT
Job PH-6905
West Shore Delaware Bay
Delaware
Map TP-00059

This map was field-edited during the summer season of 1971.

52. ADEQUACY OF COMPILATION

The compilation is believed to be very good and after application of field edit corrections, additions and deletions it will be adequate.

As stated in other reports, a second-order traverse was run between BAYSIDE LAB, 1962 and DOCTOR, 1933. Two traverse stations, which are within the limits of this map, were established and monumented, namely: LYNCH, 1970 and TOUGH, 1970. Original records and data were forwarded to the Geodesy Division in Rockville in November, 1970. A copy of the station description, plus an unadjusted field position is included with the field edit data.

Two third-order traverses were run. One from LYNCH, 1970 to TOUGH, 1970 and one from TOUGH, 1970 to SLAW, 1970. These traverses were run to provide hydrographic signal locations and to test the horizontal accuracy of the maps. Points tested are 59-01 thru 59-05. This original data was forwarded to the Atlantic Marine Center on transmittal 62-16-71, dated November 6, 1970.

54. RECOMMENDATIONS

None

55. GEOGRAPHIC NAMES

After conferring with the Chief of Division and the Geographer, it was determined that a Discrepancy Names Investigation would be adequate. This discrepancy type report is incorporated within this report. The Preliminary Geographic Names Quadrangle and a copy of this report will be forwarded to the Geographer during the 1971 summer season.

56. SHORELINE AND ALONGSHORE FEATURES

See field edit report for TP-00061 for a copy of measurements to the high-water line from hydrographic signal locations. Measurements were taken during the 1971 season from Big Stone Beach to Roosevelt Inlet.

The shoreline is generally fast as discussed in other reports in the job. There are no rock ledges. After the 1962 storm, a dike was constructed along much of the west shore of Delaware Bay. This dike has been indicated at several points on the photographs.

57. OFFSHORE FEATURES

The cluster of piles shown on Chart 1218 will be investigated by the Hydrographer.

55. GEOGRAPHIC NAMES

These names appear on part of the Milton, Delaware Preliminary Name Sheet.

Disputed Names

CALEB POND (R)

KELP POND

Both names are known locally. Most of the people contacted prefer KELP POND, however, the U.S. Board of Geographic Names has ruled that this name CALEB POND is preferred, See Delaware Place Names, Geological Survey Bulletin 1245, page 24.

SAVANNA SWAMP (R)

SAVANNA

BLIND POND

Residents of this area refer to this feature as a swamp. The name is not widely known and is only used by local residents. The name should be applied to the large swampy area just southwest of HUCKLEBERRY SWAMP. Also see Delaware Place Names, Geological Survey Bulletin 1245, page 98. No name is recommended for the pond-like area.

REFERENCES

Although many persons were contacted while investigating the names, the following persons were considered as responsible references. Their knowledge of the area and interest in local names provided the basis for their selection as references:

Harold C. Millman -- Service Station Owner - RD #1, Milton, Delaware

C.J. Plummer - Resident, Retired - Slaughter Beach, Delaware

M.H. Lloyd - Resident, Retired - Slaughter Beach, Delaware

James Reed - Farmer - RD #1, Milton, Delaware

Richard Nugent - Assistant Director of Primehook National Wildlife Refuge
Milford, Delaware

58. LANDMARKS AND AIDS

There are no nautical landmarks or fixed aids to navigation within the limits of this map. The TOWER shown on Chart 1218 has been torn down and Form 76-40 is submitted with the field edit data for its deletion.

59. GENERAL STATEMENT

All field edit notes have been made in violet ink on both the field edit sheet and the ratio photographs.

Horizontal control was pre-marked prior to photography in 1969. Tide-controlled photography was flown at both high and low water.

The Commanding Officer of the SHIP WHITING has been kept informed of all field edit operations. He has selected the nautical landmarks and has been furnished copies of all pertinent data.

August 16, 1971

Submitted by:

Robert S. Tibbetts
Surveying Technician

JOB PH-6905
INDIAN RIVER INLET to
CAPE HENLOPEN, DELAWARE

HORIZONTAL CONTROL

In accordance with telephone conversation with the Rockville Photogrammetric Office, seven(7) stations were photoidentified on photo transparencies for maps TP-00121, and TP-00180.

The Commanding Officer, SHIP WHITING, instructed Photo Party 62 to establish third order positions for hydro signals at half-mile intervals. None (9) of these stations have been photo-identified: six by reverse method; three pricked direct.

On this date we are submitting to Rockville Form 152 for seven(7) Triangulation Stations; nine (9) Form 152 for hydro signal location; and an abstract showing position of hydro signals and distances from them to the Mean High-water Line.

8 July 1970
Submitted by:

Joseph K. Wilson
Joseph K. Wilson
Chief, Photo Party 62

ABSTRACT MHWL MEASUREMENTS

20

STA. NO.	LATITUDE	LONGITUDE	DISTANCE TO MHWL (FEET)
350	38 46 0794	075 05 1224	
356	38 46 5355	075 07 0011	
358	38 47 4922	075 06 0124	
359	38 47 3872	075 05 3047	
360	38 48 0138	075 07 0127	
362	38 48 5183	075 05 3398	
364	38 49 5688	075 06 2200	
372	38 46 1886	075 08 1144	
374	38 46 3109	075 08 2794	
376	38 47 3720	075 09 2345	
378	38 47 3987	075 09 2874	
400	38 47 2834	075 09 4501	
404	38 47 3893	075 10 0367	32.0
408	38 47 5645	075 10 3609	
412	38 48 0463	075 10 5572	33.0
416	38 48 1550	075 11 1528	30.0
419	38 48 3490	075 12 4210	
420	38 48 3729	075 11 3910	118.0
422	38 48 4553	075 11 4541	32.0
424	38 48 5676	075 11 5674	25.0
426	38 49 1176	075 12 1142	19.0
428	38 49 2446	075 12 2114	49.0
430	38 49 4259	075 12 4479	46.0
432	38 49 5500	075 12 5700	62.0
434	38 50 0698	075 13 1501	72.0

stations with distances to the MHWL were plotted on sheets TP-00058, 00059, 00060, 00061. (Meter computations had already been done by H.S.) Distances from these stations to the MHWL were measured and the shoreline changed accordingly.

S.K. 11/3/72

✓ by L.N.

33.0 ?? Photo for far island

30.0 ?? Photo for far island

GROIN, 1970

TP-00061

TP-00060

STA. No.	LATITUDE	LONGITUDE	DISTANCE TO MHWL (FEET)
551	38 56 0082	075 19 0368	
552	38 55 5902	075 19 0662	
556	38 56 0502	075 19 2542	
560	38 56 0615	075 19 0477	
570	38 56 5042	075 18 5570	
572	38 56 1124	075 17 5468	
580	39 00 0074	075 19 4396	
600	38 56 0519	075 19 2602	
604	38 56 4026	075 19 0958	
608	38 56 4726	075 18 4635	
612	38 57 0891	075 18 4503	33.0
614	38 57 1859	075 18 4450	32.0
616	38 57 2865	075 18 4357	36.0
618	38 57 4407	075 18 4100	00.0
620	38 58 0088	075 18 4279	18.0
622	38 58 1122	075 18 4469	21.0
626	38 58 3328	075 18 5086	
628	38 58 4949	075 18 5435	53.0
632	38 59 0891	075 19 0438	76.0
636	38 59 2762	075 19 1687	81.0
7501	38 56 1356	074 54 5599	
751	38 56 4053	074 54 2234	
753	38 56 4691	074 53 3541	
754	38 56 4908	074 53 1119	
755	38 56 5807	074 52 0247	
756	38 55 5838	074 57 3876	
757	38 59 1003	075 06 4882	
758	39 02 5329	075 10 5727	
		757 38 59	

	LATITUDE	LONGITUDE	DISTANCE TO MHWL (FEET)
444	38 49 4032	075 12 4644	
448	38 49 5303	075 13 0016	
452	38 50 0261	075 13 2185	
456	38 50 1849	075 13 3347	126.5 WHITE, 1970
460	38 50 3052	075 13 4828	57.5
464	38 50 4620	075 14 0749	98.5
468	38 51 0549	075 14 2348	76.5
472	38 51 1075	075 14 2981	242.0
476	38 51 2323	075 14 4129	227.0
480	38 51 3893	075 14 5537	
484	38 51 5364	075 15 0699	208.0
488	38 52 0179	075 15 1314	70.0
492	38 52 1431	075 15 2324	69.0
496	38 52 2426	075 15 3234	50.0 LYNCH, 1970
500	38 52 3749	075 15 5044	91.0
504	38 52 5189	075 16 0908	26.0 BELOW MHWL (INSHORE)
508	38 53 2048	075 16 3981	51.0 TOUGH, 1970
512	38 53 3572	075 16 5646	129.0
516	38 53 5161	075 17 1360	
520	38 54 1422	075 17 4020	43.0
524	38 54 2768	075 17 5508	43.0
528	38 54 4592	075 18 1532	67.0
532	38 55 1049	075 18 3435	58.0
536	38 55 2006	075 18 4250	156.0 SLAW, 1970
540	38 55 2872	075 18 5124	
544	38 55 3725	075 18 5702	
548	38 55 4741	075 19 0394	

REVIEW REPORT

SHORELINE

TP-00059

61. GENERAL STATEMENT:

See Summary included with this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangles, Milton, Delaware, scale 1:24,000, dated 1955 and Mispillion River, Delaware, scale 1:24,000, dated 1955.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of H-9202. No significant differences were noted.

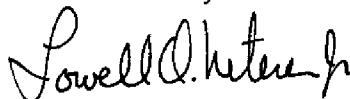
65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with N.O.S. chart 12304, 27th edition, March 28, 1981, 1:80,000 scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and the requirements for National Standards of Map Accuracy.

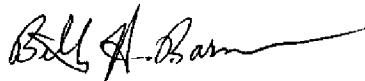
Submitted by:



Lowell O. Neterer, Jr.
Final Reviewer

January 12, 1982

Approved for forwarding:



Billy H. Barnes
Chief, Photogrammetric Branch, AMC

July 28, 1981

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6905 (Delaware Bay, Delaware)

TP-00059

Bennett Pond

Big Round Pond

Cedar Creek

Delaware Bay

Draper-Bennet Ditch

Fowler Beach

Ingram Pond

Little Round Pond

Old Slaughter Creek

Slaughter Beach (Ppl)

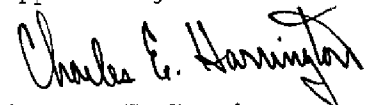
Slaughter Creek

Southwest Pond

Todds Island

Waples Pond

Approved by:



Charles E. Harrington
Chief Geographer, OA/C3x5

Information of Dissemination of Project Material

PH-6905

Delaware Bay

NATIONAL ARCHIVE/FEDERAL RECORD CENTER

Computer Readout
Control Station Identification Cards
Field Edit Ozalids
Field Photographs
NOAA Form 76-41 (Descriptive Report Control Record)

Project Diagrams

Plot Report

Bureau Archives

Descriptive Report

Registered Maps

Reproduction Division

8x Reduction Negative of Each Maps

Office of Staff Geographer

Geographer Names Standard

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]